R. B. Huguin,

Corrugating Metal Plates,

No. 42,377. Patented Apr. 19, 1864.

Fig. 1.

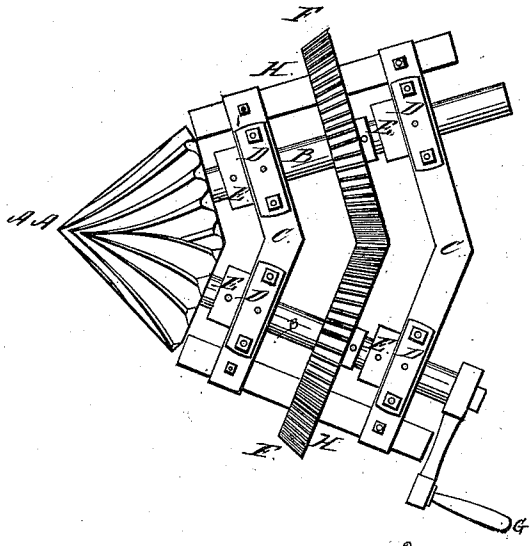


Fig. 3.

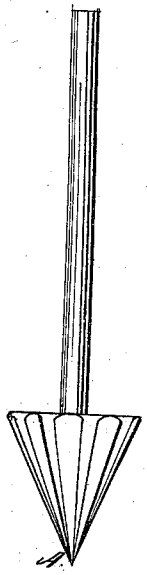


Fig. 2.

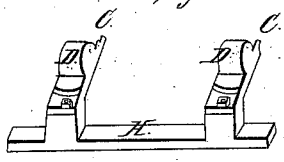
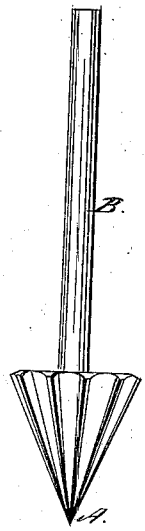
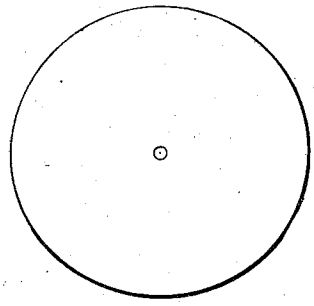
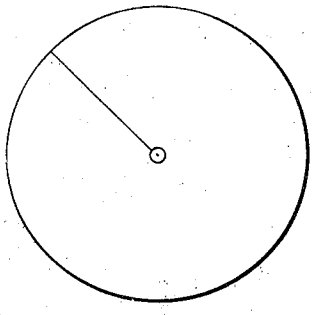
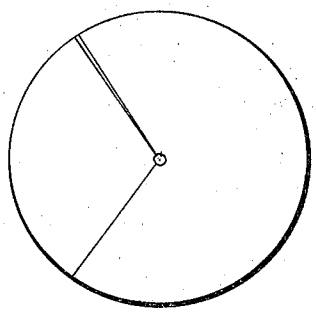


Fig. 3.









Witnesses:
G. B. Tuttle Jr
Chs. Sayler

Inventor:
Robt. B. Huguenin

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ROBERT B. HUGUNIN, OF CLEVELAND, OHIO.

IMPROVEMENT IN CORRUGATING CIRCULAR METAL PLATES.

Specification forming part of Letters Patent No. **42,377**, dated April 19, 1864.

To all whom it may concern:

Be it known that I, ROBERT B. HUGUNIN, of Cleveland, county of Cuyahoga, and State of Ohio, have invented a new machine for corrugating circular metal plates of any desired size, with corrugations radiating from the center; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a plan view of my machine. Fig. 2 is a sectional view of the frame, showing the cones removed, and represented in Fig. 3.

Similar letters of reference indicate corresponding parts in each figure.

To enable those skilled in the art to fully understand my invention, I will proceed to describe its construction and operation.

A A are two cones of any suitable size or length, with grooved surfaces, with either straight or curved grooves, for corrugating plates either with curved or straight corrugations; B B, two rods connected with and extending straight back from the cones to any desired distance; C C, two plates upon which rests the boxes D D D D, which are securely fastened to said plates; E E E E, collars round the rods B B to prevent the cones working back while operating the machine; F F, gear-wheels for turning and guiding the cones; G, crank for hand-machine; H H, temporary table upon which rests the machine.

The operation of the machine may be briefly described as follows: The metal to be corrugated is cut to a circle of any desired diameter, the half of which shall not exceed the length of the cones. The edges, if desired, may then be turned under, after which cut the circle (or plate) from the outer edge to the center straight. Taking hold of the crank, place one edge of the cut or slit portion of the circle between the cones, the center on the point, the outer edge on the base of the cones; turn the crank, the plate will make the circuit and pass out at the other edge of the slit corrugated. When an entire circle of corrugations is required it will be necessary to add on to the circle such portion of an additional circle as will equal what will be drawn or taken up in the corrugations.

Having thus described my invention, what I claim, and wish to secure by Letters Patent, is—

1. The arrangement of the cones A A, as and for the purposes herein shown.

2. The arrangement and combination of the plates C C, gears F F, boxes D D D D, collars E E E E, and cones A A, as and for the purposes herein shown and described.

Witnesses:
GEO. B. TIBBITS,
CHS. SEYLER.

R. B. HUGUNIN